

**DEMOGRAPHIC INFORMATION BY ECOZONES
NEW YORK STATE**

PROGRESS REPORT NO. 1

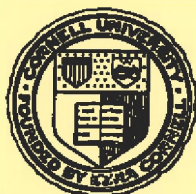
by

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June 1987



Series No. 87-4



**Human Dimensions Research Unit
Department of Natural Resources
New York State College of Agriculture and Life Sciences
A Statutory College of the State University
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STATE: NEW YORK

PROJECT NO.: W-146-R:12

PROJECT TITLE: Public Attitudes Toward Wildlife and Its Accessibility

STUDY NUMBER AND TITLE: I - Deriving Social Indices of Public Attitudes
Toward Wildlife Populations and Their Use

JOB NUMBER AND TITLE: I-12 - Determination of the Nature and Demographics
of Wildlife Recreation Demand, by Ecozone-
based Wildlife Management Units

JOB OBJECTIVES: To analyze the potential to stratify demand by ecozone and
SMSA using secondary (existing) data sources.

To derive estimates of the relative size (i.e., extent and
intensity) of wildlife demand based on assessments of
secondary data.

To identify the need to collect primary data to estimate
demand, and determine the feasibility of acquisition.

JOB DURATION: 1 January 1987 - 30 June 1989

ABSTRACT: Demographic information on the 1980 New York State population was
collected for the 23 ecozones and 11 urbanized areas in the state. The data
included total population, per capita income, race, sex and age groups.
Potential variables which could be added to the data base were suggested.

Introduction

This job was undertaken to help Bureau of Wildlife staff derive estimates of the relative extent and intensity of demand levels for particular wildlife species. These demand levels are to be based on assessments from secondary data, if such data exist. The first stage of this job was the development of a data base with selected demographic information by ecozones in New York State. This progress report will briefly outline the methods used to obtain demographic information by ecozone, the initial summary of data in the data base, and recommendations for additional variables to be included in the data base.

Methods

Demographic information was obtained from the 1980 Census of the Population. It included a total enumeration of the population by sex, race, age, and per capita income. The age categories selected for inclusion in this data base were birth to 13, 14-15, 16-17, 18-21, 22-24, 45-64, and 65-99.

New York State was divided into 23 ecozones and 11 urbanized areas (Figure 1). Ecozones were defined by DEC as areas with similar topography and habitats available for wildlife. Urbanized areas as defined by the Bureau of the Census consist of a central city or cities, and surrounding closely settled territory ("urban fringe") that together have a minimum population of 50,000. Table 1 lists the ecozones and the urbanized areas of New York. The identification numbers in the table correspond to the numbers on Figure 1.

The demographic information for urbanized areas was taken directly from the Census tables. However for ecozones a more detailed process was involved because ecozone boundaries do not follow traditional political boundaries. Data were collected at the township or village level and then aggregated to the ecozone level. Along ecozone boundaries that divided townships or villages,

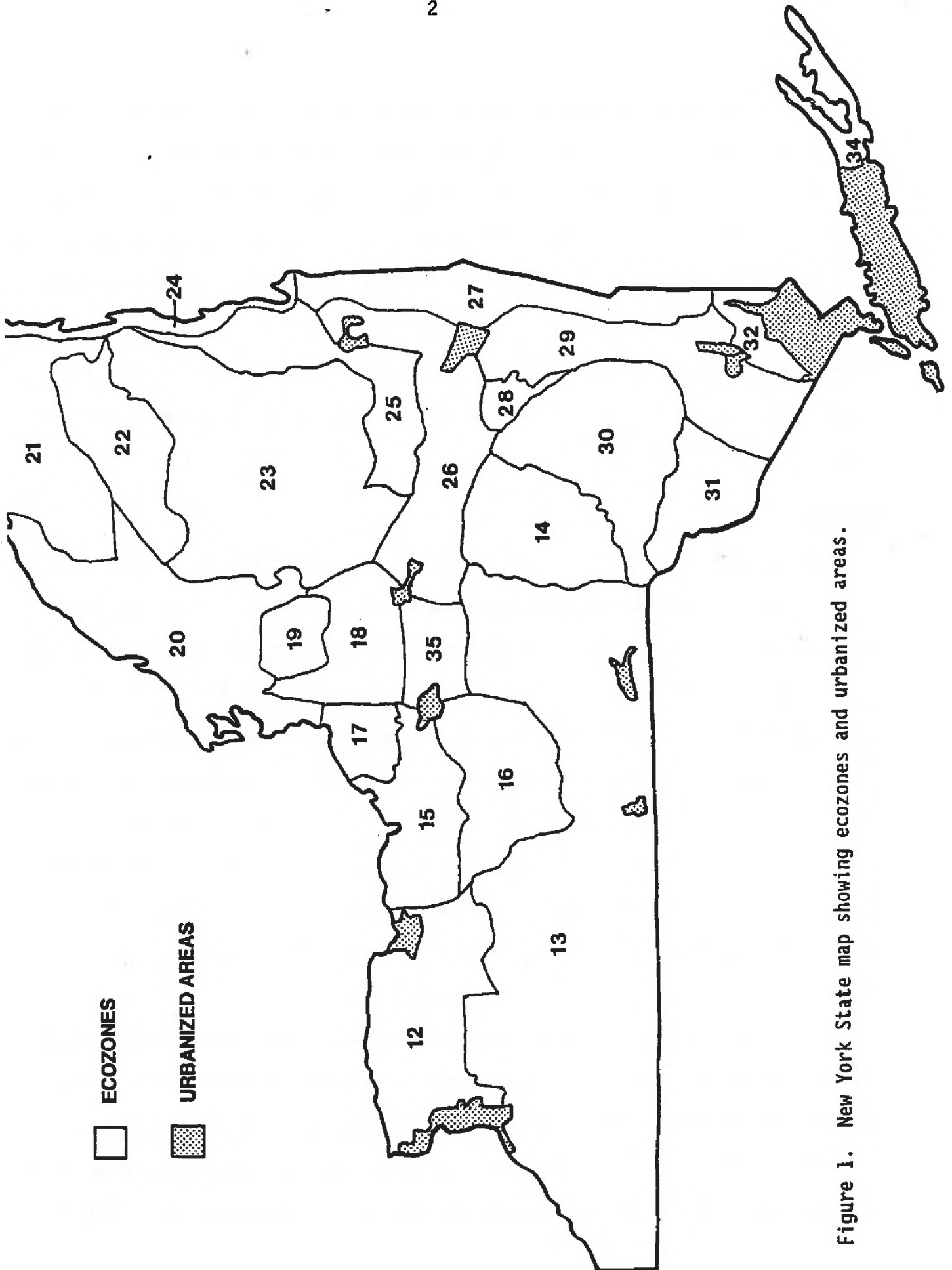


Table 1. Ecozones and urbanized areas of New York State.

<u>Ecozones</u>	<u>Urbanized Areas</u>
12 Lake Plains	1 Albany-Schenectady-Troy
13 Appalachian Plateau	2 Binghamton
14 Appalachia East	3 Buffalo
15 Drumlins	4 Elmira
16 Finger Lakes Highlands	5 Glens Falls
17 Oswego Lowland	6 Newburgh
18 Tug Hill Transition	7 Poughkeepsie
19 Tug Hill	8 Rochester
20 St. Lawrence Valley	9 Syracuse
21 Adirondack Transition N	10 Utica-Rome
22 Adirondack Foothills	11 New York City + Northeastern N.J.
23 Central Adirondacks	
24 Champlain Valley	
25 Adirondack Transition S	
26 Mohawk Valley	
27 Taconics	
28 Helderberg Highlands	
29 Hudson Valley	
30 Catskills	
31 Mongaup Hills	
32 Manhattan Hills	
34 Coastal Lowlands	
35 Unnamed	

population estimates were based on the percentage of land area in each ecozone. This assumes that the population is evenly distributed within the township or village. However, this bias is mitigated by the equal chance of error being on either side of the ecozone boundary across all townships and villages that were divided in this manner.

Results

Data were aggregated to provide population estimates by sex, age group, race, and per capita income for each ecozone and urbanized area (Table 2). The percent error in these estimates ranged from .06% to .01%.

Recommendations for additional variables to be added to the data base

The primary socio-demographic variables have already been included in the data base. One potential additional variable would be population density for each ecozone. Potential land use variables (such as acres of cropland) were considered but do not exist on a township by township basis.

Potential resource variables might include some type of white-tailed deer index or measure of deer habitat. Any resource variable that DEC might wish to provide for inclusion in the data base must be available at the township level.

Further work on ecozone boundaries

DEC has changed some of the boundaries for the ecozones and created 2 new ecozones since the original data was compiled. The changes were primarily in the Albany and Watertown areas. These changes will be incorporated into the data base and the next progress report will reflect those changes.

Table 2. Demographic information from the 1980 Census for urban and ecozone areas of New York State.

<u>New York State Areas</u>	<u>Total Population</u>	<u>Total Males</u>	<u>Total Females</u>	<u>Average Per Capita Income</u>	<u>Percent White</u>
Urban Areas					
Albany-Troy-Schen.	490,015	232,109	257,906	7,356	93.1
Binghamton	161,312	76,352	84,960	7,142	96.7
Buffalo	1,002,285	473,815	528,470	7,040	87.0
Elmira	68,227	32,144	36,083	6,137	93.3
Utica	51,382	23,934	27,448	6,238	99.1
Rochester	65,711	30,821	34,891	6,574	82.6
Peekskill	136,571	66,777	69,794	7,752	87.3
Roseton	606,070	289,535	316,535	8,305	85.8
Syracuse	379,284	180,013	199,271	7,272	90.1
Utica	155,238	73,338	81,900	6,146	94.0
New York City	10,672,975	5,005,980	5,666,995	7,900	70.5
Ecozone					
Lake Placid	382,846	187,931	194,917	7,245	96.6
Appalachian Plateau	866,655	425,229	441,468	6,174	97.8
Appalachian	86,359	41,542	44,840	5,715	98.7
Drumlin	171,365	84,318	87,047	6,793	96.7
Finger Lakes	219,815	107,146	112,640	6,463	96.2
Oswego	95,267	46,629	48,639	5,994	98.7
Tug Hill	33,782	17,032	16,736	5,912	99.1
Tug Hill	3,493	1,753	1,743	5,474	99.7
St. Lawrence	193,742	94,103	99,673	5,513	99.0
ADK Transition North	60,445	30,382	30,046	5,362	95.3
ADK Foothills	52,408	27,410	24,987	5,312	95.5
Central ADK	51,741	25,546	26,200	5,827	99.2
Champlain Valley	40,772	19,416	21,366	5,707	97.1
ADK Transition South	106,540	52,131	54,399	5,881	98.1
Mohawk Valley	289,977	140,283	149,675	6,387	98.4
Taconics	133,615	67,074	66,528	6,649	96.5
Helderberg Highlands	15,686	7,791	7,892	6,602	99.1
Hudson Valley	512,204	253,093	259,090	6,944	95.0
Catskills	88,047	43,216	44,838	6,397	97.8
Mongaup Hills	74,132	37,460	36,666	5,838	91.2
Manhattan Hills	57,632	28,336	29,298	11,759	96.6
Coastal Lowlands	111,739	54,372	57,369	9,757	92.5
Unnamed (near Syracuse)	121,114	59,427	61,693	6,586	98.6

Table 2. (Cont.)

<u>New York State Areas</u>	<u># Males Age 1-13</u>	<u># Males Age 14-15</u>	<u># Males Age 16-17</u>	<u># Males Age 18-21</u>	<u># Males Age 22-44</u>
<u>Urban Areas</u>					
Albany-Troy-Schen.	44,882	8,064	8,573	22,184	75,357
Binghamton	14,287	2,553	3,012	7,273	24,170
Buffalo	96,227	17,593	18,500	37,664	148,413
Elmira	6,490	1,120	1,357	3,282	9,460
Glens Falls	5,874	1,013	999	1,595	7,454
Newburgh	7,360	1,235	1,248	1,844	9,939
Poughkeepsie	13,767	2,547	2,720	6,276	22,584
Rochester	61,267	10,719	11,104	22,945	99,520
Syracuse	37,710	6,672	7,078	16,587	59,720
Utica-Rome	15,158	2,678	2,746	5,747	22,160
New York City	1,036,578	183,970	191,452	338,772	1,679,516
<u>Cozone Areas</u>					
Lake Plains	42,069	7,905	8,198	15,962	61,151
Appalachian Plateau	95,442	16,880	17,975	37,653	132,056
Appalachia East	8,329	1,506	1,602	5,122	11,995
Drumlins	20,239	3,565	3,614	5,359	28,168
Finger Lks. Highlands	21,888	3,843	4,234	11,466	34,927
Oswego Lowlands	10,861	1,811	1,935	5,102	14,868
Tug Hill Trans.	4,521	860	782	1,082	5,322
Tug Hill	414	76	69	122	527
St. Lawrence Valley	21,999	3,817	4,006	9,715	27,798
ADK Transition North	7,213	1,355	1,397	3,474	9,282
ADK Foothills	5,647	1,100	1,106	2,687	10,055
Central ADK	5,579	1,143	1,175	1,650	7,735
Champlain Valley	3,900	666	775	2,846	6,534
ADK Transition South	11,819	2,136	2,144	3,455	16,440
Mohawk Valley	31,205	5,523	5,692	10,207	44,464
Taconics	14,652	2,834	2,889	3,925	22,417
Helderberg Highlands	1,769	343	354	473	2,453
Hudson Valley	55,677	10,183	10,741	20,351	83,445
Catskills	8,693	1,667	1,781	3,449	13,047
Mongaup Hills	6,984	1,326	1,534	2,770	11,920
Manhattan Hills	6,356	1,421	1,386	1,602	8,985
Coastal Lowlands	12,989	2,462	2,515	3,922	17,602
Unnamed (near Syracuse)	13,781	2,680	2,713	4,575	18,570

Table 2. (Cont.)

<u>New York State Areas</u>	<u># Males Age 45-64</u>	<u># Males Age 65-99</u>	<u># Females Age 1-13</u>	<u># Females Age 14-15</u>	<u># Females Age 16-17</u>
<u>Urban Areas</u>					
Albany-Troy-Schen.	47,808	25,241	42,531	7,796	8,340
Binghamton	16,483	8,574	13,548	2,567	2,825
Buffalo	106,192	49,226	93,164	16,847	17,996
Elmira	6,763	3,672	6,505	1,189	1,191
Glens Falls	4,611	2,388	5,609	1,058	1,048
Newburgh	6,158	3,037	7,205	1,225	1,250
Poughkeepsie	13,217	5,666	13,204	2,579	2,653
Rochester	57,399	26,581	58,401	10,512	10,873
Syracuse	35,785	16,461	36,617	6,350	6,934
Utica-Rome	15,948	8,901	14,040	2,571	2,708
New York City	1,068,405	507,287	996,820	179,304	188,018
<u>Cozone Areas</u>					
Lake Plains	36,839	15,807	39,846	7,283	7,566
Appalachian Plateau	83,031	42,192	90,343	16,019	17,017
Appalachia East	8,062	4,926	7,778	1,417	1,496
Drumlins	16,000	7,373	19,330	3,282	3,497
Finger Lks. Highlands	20,206	10,582	20,699	3,741	4,104
Oswego Lowlands	8,315	3,737	10,496	1,787	1,812
Tug Hill Trans.	3,069	1,396	4,274	748	743
Tug Hill	369	176	411	79	82
St. Lawrence Valley	17,602	9,166	20,831	3,786	3,949
ADK Transition North	5,315	2,346	6,716	1,311	1,306
ADK Foothills	4,602	2,213	5,409	992	1,097
Central ADK	5,249	3,015	5,278	1,001	1,071
Champlain Valley	3,110	1,585	3,674	692	748
ADK Transition South	10,198	5,939	11,274	2,044	2,062
Mohawk Valley	28,459	14,733	29,567	5,226	5,479
Taconics	13,320	7,037	13,517	2,598	2,697
Helderberg Highlands	1,550	849	1,643	299	298
Hudson Valley	47,983	24,713	52,940	9,433	9,708
Catskills	9,044	5,535	8,172	1,540	1,610
Mongaup Hills	8,015	4,911	6,752	1,210	1,365
Manhattan Hills	6,368	2,218	5,935	1,273	1,282
Coastal Lowlands	10,939	3,943	12,324	2,368	2,419
Unnamed (near Syracuse)	12,114	4,976	13,174	2,528	2,608

Table 2. (Cont.)

<u>New York State Areas</u>	<u># Females Age 18-21</u>	<u># Females Age 22-44</u>	<u># Females Age 45-64</u>	<u># Females Age 65-99</u>
<u>Urban Areas</u>				
Albany-Troy-Schen.	22,158	78,739	55,423	42,919
Binghamton	7,939	24,732	19,101	14,248
Buffalo	40,874	159,683	121,184	78,722
Elmira	2,687	9,924	8,131	6,456
Glens Falls	1,843	8,068	5,601	4,221
Newburgh	2,558	10,789	7,145	4,719
Poughkeepsie	5,788	22,495	14,000	9,075
Rochester	22,708	105,377	64,557	44,107
Syracuse	17,623	63,934	40,869	26,944
Utica-Rome	6,054	23,088	18,649	14,790
New York City	359,884	1,877,800	1,250,703	814,466
<u>Cozone Areas</u>				
Lake Plains	17,052	62,228	38,053	22,889
Appalachian Plateau	38,013	133,232	87,881	58,963
Appalachia East	6,040	12,341	8,767	7,001
Drumlins	5,336	28,525	16,797	10,280
Finger Lks. Highlands	11,511	34,345	22,090	16,150
Oswego Lowlands	5,187	14,947	8,872	5,538
Tug Hill Trans.	1,045	5,298	2,996	1,632
Tug Hill	122	493	335	221
St. Lawrence Valley	8,921	28,258	19,519	14,409
ADK Transition North	2,797	9,058	5,584	3,274
ADK Foothills	1,994	7,707	4,746	3,042
Central ADK	1,530	7,693	5,569	4,058
Champlain Valley	3,569	6,303	3,589	2,791
ADK Transition South	3,481	16,004	11,229	8,305
Mohawk Valley	10,963	45,111	31,273	22,056
Taconics	3,649	21,165	13,730	9,172
Helderberg Highlands	432	2,517	1,579	1,124
Hudson Valley	16,700	84,097	50,327	35,885
Catskills	3,303	13,347	9,524	7,342
Mongaup Hills	2,246	10,705	8,173	6,215
Manhattan Hills	1,459	9,866	6,320	3,163
Coastal Lowlands	3,884	19,073	11,199	6,102
Unnamed (near Syracuse)	4,396	19,221	12,581	7,185
